

## WEST Search History

DATE: Thursday, December 09, 2004

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<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L4	L3 same second	40
<input type="checkbox"/>	L3	L2 same aperture	57
<input type="checkbox"/>	L2	L1 same (medi\$2 or dis\$2 or carrier)	326
<input type="checkbox"/>	L1	(first or second or different) same wavelength\$2 same (laser\$2 or light) same collimat\$ same lens same objective\$	530

END OF SEARCH HISTORY

# Hit List

<a href="#">Clear</a>	<a href="#">Generate Collection</a>	<a href="#">Print</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>
<a href="#">Generate OACs</a>				

Search Results - Record(s) 1 through 40 of 40 returned.

1. Document ID: US 6829209 B1

L4: Entry 1 of 40

File: USPT

Dec 7, 2004

US-PAT-NO: 6829209

DOCUMENT-IDENTIFIER: US 6829209 B1

TITLE: OBJECTIVE FOR OPTICAL DISK, OPTICAL HEAD DEVICE AND OPTICAL INFORMATION RECORDING/REPRODUCING APPARATUS BOTH COMPRISING THE SAME, MOLD FOR FORMING LENS, METHOD FOR MACHINING MOLD FOR FORMING LENS, AND SHAPE MEASURING INSTRUMENT

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Yasuhiro	Hyogo			JP
Yamagata; Michihiro	Osaka			JP
Sasano; Tomohiko	Osaka			JP

US-CL-CURRENT: 369/112.23

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KJC/C</a>	<a href="#">Drawn D</a>
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2. Document ID: US 6728193 B1

L4: Entry 2 of 40

File: USPT

Apr 27, 2004

US-PAT-NO: 6728193

DOCUMENT-IDENTIFIER: US 6728193 B1

TITLE: Optical pickup device and optical disc driving device

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uchizaki; Ichiro	Fujisawa			JP
Tsunoda; Kazuya	Zama			JP

US-CL-CURRENT: 369/112.01; 369/112.05, 369/112.23, 369/44.23

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KJC/C</a>	<a href="#">Drawn D</a>
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**3. Document ID: US 6660985 B2**

L4: Entry 3 of 40

File: USPT

Dec 9, 2003

US-PAT-NO: 6660985

DOCUMENT-IDENTIFIER: US 6660985 B2

TITLE: Optical pick-up device and objective lens therefor

DATE-ISSUED: December 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Honda; Koji	Hachioji			JP

US-CL-CURRENT: 250/201.5; 369/112.01, 369/44.23

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn D</a>
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**4. Document ID: US 6650612 B1**

L4: Entry 4 of 40

File: USPT

Nov 18, 2003

US-PAT-NO: 6650612

DOCUMENT-IDENTIFIER: US 6650612 B1

TITLE: Optical head and recording reproduction method

DATE-ISSUED: November 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsuzaki; Keiichi	Osaka			JP
Shiono; Teruhiro	Osaka			JP
Kasazumi; Ken'ichi	Osaka			JP
Saimi; Tetsuo	Osaka			JP

US-CL-CURRENT: 369/112.05; 369/44.23, 369/44.37

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn D</a>
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**5. Document ID: US 6636365 B2**

L4: Entry 5 of 40

File: USPT

Oct 21, 2003

US-PAT-NO: 6636365

DOCUMENT-IDENTIFIER: US 6636365 B2

TITLE: Optical pickup apparatus and objective lens

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DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Saito; Shinichiro	Hachioji			JP
Sakamoto; Katsuya	Hachioji			JP

US-CL-CURRENT: 359/719; 359/565, 359/721

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Korean](#) | [Drawn D.](#)

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6. Document ID: US 6590851 B1

L4: Entry 6 of 40

File: USPT

Jul 8, 2003

US-PAT-NO: 6590851

DOCUMENT-IDENTIFIER: US 6590851 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Optical pickup for recording/reproducing optical discs of multiple thicknesses

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Tae-kyung	Suwon			KR
Chung; Chong-sam	Seongnam			KR
Ahn; Young-man	Suwon			KR
Suh; Hea-jung	Seongnam			KR

US-CL-CURRENT: 369/112.01; 369/112.13, 369/112.23, 369/44.23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Korean](#) | [Drawn D.](#)

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7. Document ID: US 6498775 B1

L4: Entry 7 of 40

File: USPT

Dec 24, 2002

US-PAT-NO: 6498775

DOCUMENT-IDENTIFIER: US 6498775 B1

TITLE: Multi-layer optical recording media and system for recording and reproducing information data

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fan; Bunsen	Cortlandt Manor	NY		

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Faris; Sadeg M. Pleasantville NY

US-CL-CURRENT: 369/94; 369/275.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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8. Document ID: US 6449235 B1

L4: Entry 8 of 40

File: USPT

Sep 10, 2002

US-PAT-NO: 6449235

DOCUMENT-IDENTIFIER: US 6449235 B1

TITLE: Optical pick-up apparatus and optical recording/reproducing apparatus using the same

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Jin Yong	Kyungki-do			KR
Jeong; Seong Yun	Seoul			KR

US-CL-CURRENT: 369/112.01; 369/118, 369/94

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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9. Document ID: US 6407974 B1

L4: Entry 9 of 40

File: USPT

Jun 18, 2002

US-PAT-NO: 6407974

DOCUMENT-IDENTIFIER: US 6407974 B1

TITLE: Optical pick-up apparatus

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Young Sik	Seoul			KR
Kim; Jin Yong	Kyunggi-do			KR

US-CL-CURRENT: 369/112.29; 369/112.28, 369/44.23, 369/94

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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10. Document ID: US 6400672 B2

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L4: Entry 10 of 40

File: USPT

Jun 4, 2002

US-PAT-NO: 6400672

DOCUMENT-IDENTIFIER: US 6400672 B2

TITLE: Method for recording/reproducing optical information recording medium, optical pickup apparatus, objective lens and design method of objective lens

DATE-ISSUED: June 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Norikazu	Hachioji			JP
Yamazaki; Hiroyuki	Hachioji			JP
Saito; Shinichiro	Hachioji			JP

US-CL-CURRENT: 369/112.26; 369/112.01, 369/44.12, 369/44.23[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  [Claims](#) | [KURC](#) | [Drawn](#) 

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**□ 11. Document ID: US 6392977 B2**

L4: Entry 11 of 40

File: USPT

May 21, 2002

US-PAT-NO: 6392977

DOCUMENT-IDENTIFIER: US 6392977 B2

TITLE: Optical pickup with a hologram to limit the aperture of two light beams with different wavelengths

DATE-ISSUED: May 21, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ando; Nobuhiko	Tokyo			JP
Fujiie; Kazuhiko	Kanagawa			JP

US-CL-CURRENT: 369/112.01; 369/118, 369/44.37, 369/94[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  [Claims](#) | [KURC](#) | [Drawn](#) 

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**□ 12. Document ID: US 6377536 B1**

L4: Entry 12 of 40

File: USPT

Apr 23, 2002

US-PAT-NO: 6377536

DOCUMENT-IDENTIFIER: US 6377536 B1

TITLE: Optical pick-up apparatus

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DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Young Sik	Kyunggi-do			KR
Park; Sung Chan	Seoul			KR
Eom; In Seop	Kyunggi-do			KR

US-CL-CURRENT: 369/112.17; 369/44.23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  | [Claims](#) | [KOMC](#) | [Drawn D](#)

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13. Document ID: US 6370103 B1

L4: Entry 13 of 40

File: USPT

Apr 9, 2002

US-PAT-NO: 6370103

DOCUMENT-IDENTIFIER: US 6370103 B1

TITLE: Objective lens for correcting chromatic aberration for use in recording to or reproducing from optical information recording medium and optical pickup apparatus therewith

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamazaki; Hiroyuki	Hachioji			JP
Kojima; Toshiyuki	Hachioji			JP

US-CL-CURRENT: 369/112.26; 369/112.08, 369/94

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  | [Claims](#) | [KOMC](#) | [Drawn D](#)

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14. Document ID: US 6363046 B1

L4: Entry 14 of 40

File: USPT

Mar 26, 2002

US-PAT-NO: 6363046

DOCUMENT-IDENTIFIER: US 6363046 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Optical recording/pickup head compatible with a digital versatile disk (DVD) and a recordable compact disk (CD-R) using a holographic variable aperture

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoo; Jang-Hoon	Seoul			KR

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Lee; Chul-Woo

Seoul

KR

US-CL-CURRENT: 369/112.23; 369/103, 369/109.01, 369/118, 369/44.23, 369/44.37,  
369/94[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Korean](#) | [Drawn](#) 15. Document ID: US 6359845 B1

L4: Entry 15 of 40

File: USPT

Mar 19, 2002

US-PAT-NO: 6359845

DOCUMENT-IDENTIFIER: US 6359845 B1

TITLE: Optical pickup apparatus

DATE-ISSUED: March 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Man Hyung	Seoul			KR
Kim; Chul Min	Seoul			KR
Kim; Hyun Joon	Kyunggi-do			KR

US-CL-CURRENT: 369/44.23; 369/112.01, 369/44.37, 369/94[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Korean](#) | [Drawn](#) 16. Document ID: US 6345029 B1

L4: Entry 16 of 40

File: USPT

Feb 5, 2002

US-PAT-NO: 6345029

DOCUMENT-IDENTIFIER: US 6345029 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Optical pickup apparatus and method

DATE-ISSUED: February 5, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Chul-Woo	Seoul			KR
Yoo; Jang-Hoon	Seoul			KR

US-CL-CURRENT: 369/118; 369/112.01, 369/44.24[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Korean](#) | [Drawn](#)

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## □ 17. Document ID: US 6243349 B1

L4: Entry 17 of 40

File: USPT

Jun 5, 2001

US-PAT-NO: 6243349

DOCUMENT-IDENTIFIER: US 6243349 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method for recording/reproducing optical information recording medium, optical pickup apparatus, objective lens and design method of objective lens

DATE-ISSUED: June 5, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Norikazu	Hachioji			JP
Yamazaki; Hiroyuki	Hachioji			JP
Saito; Shinichiro	Hachioji			JP

US-CL-CURRENT: 369/112.01; 369/44.12, 369/44.23, 369/93[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn](#)

## □ 18. Document ID: US 6240053 B1

L4: Entry 18 of 40

File: USPT

May 29, 2001

US-PAT-NO: 6240053

DOCUMENT-IDENTIFIER: US 6240053 B1

TITLE: Optical pickup device

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akiyama; Hiroshi	Kanagawa			JP

US-CL-CURRENT: 369/44.23; 369/112.24[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn](#)

## □ 19. Document ID: US 6185168 B1

L4: Entry 19 of 40

File: USPT

Feb 6, 2001

US-PAT-NO: 6185168

DOCUMENT-IDENTIFIER: US 6185168 B1

TITLE: Super-resolution optical head apparatus

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DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kato; Makoto	Hyogo			JP
Kasazumi; Kenichi	Osaka			JP
Kadowaki; Shin-ichi	Osaka			JP
Yamamoto; Hiroaki	Osaka			JP
Yamamoto; Kazuhisa	Osaka			JP

US-CL-CURRENT: 369/44.23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn](#)

20. Document ID: US 6118749 A

L4: Entry 20 of 40

File: USPT

Sep 12, 2000

US-PAT-NO: 6118749

DOCUMENT-IDENTIFIER: US 6118749 A

TITLE: Method for recording/reproducing optical information recording medium, optical pickup apparatus, objective lens and design method of objective lens

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Norikazu	Hachioji			JP
Yamazaki; Hiroyuki	Hachioji			JP
Saito; Shinichiro	Hachioji			JP

US-CL-CURRENT: 369/112.26; 369/44.12, 369/44.23, 369/93

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Drawn](#)

21. Document ID: US 6115345 A

L4: Entry 21 of 40

File: USPT

Sep 5, 2000

US-PAT-NO: 6115345

DOCUMENT-IDENTIFIER: US 6115345 A

TITLE: Super-resolution optical head apparatus

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kato; Makoto	Hyogo			JP

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Kasazumi; Kenichi	Osaka	JP
Kadowaki; Shin-ichi	Osaka	JP
Yamamoto; Hiroaki	Osaka	JP
Yamamoto; Kazuhisa	Osaka	JP

US-CL-CURRENT: 369/112.1; 369/112.19, 369/44.23, 369/44.37

Full Title Citation Front Review Classification Date Reference Claims KINC Drawn By

□ 22. Document ID: US 6094410 A

L4: Entry 22 of 40

File: USPT

Jul 25, 2000

US-PAT-NO: 6094410

DOCUMENT-IDENTIFIER: US 6094410 A

TITLE: Multi-layer optical recording media and method for recording and reproducing information using the same

DATE-ISSUED: July 25, 2000

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fan; Bunsen	Cortlandt Manor	NY		
Faris; Sadeg M.	Pleasantville	NY		

US-CL-CURRENT: 369/94; 369/275.1

Full Title Citation Front Review Classification Date Reference Claims KIWC Drawn By

□ 23. Document ID: US 6088322 A

L4: Entry 23 of 40

File: USPT

Jul 11, 2000

US-PAT-NO: 6088322

DOCUMENT-IDENTIFIER: US 6088322 A

TITLE: Single objective lens for use with CD or DVD optical disks

DATE-ISSUED: July 11, 2000

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Broome; Barry G.	Carlsbad	CA	92008	
Richard; Jenkin A	Mountain View	CA	94043	

US-CL-CURRENT: 369/112.26; 369/118, 369/44.24, 369/44.37, 369/94

Full Title Citation Front Review Classification Date Reference Claims KMC Drawn Drawn

24. Document ID: US 6084847 A

L4: Entry 24 of 40

File: USPT

Jul 4, 2000

US-PAT-NO: 6084847

DOCUMENT-IDENTIFIER: US 6084847 A

TITLE: Light pickup

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kojima; Kouki	Fukuoka			JP
Furukawa; Fuminobu	Onojo			JP

US-CL-CURRENT: 369/112.23; 369/121[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | | | | [Claims](#) | [KWMC](#) | [Drawn D](#) 25. Document ID: US 6061324 A

L4: Entry 25 of 40

File: USPT

May 9, 2000

US-PAT-NO: 6061324

DOCUMENT-IDENTIFIER: US 6061324 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for recording/reproducing optical information recording medium, optical pickup apparatus, objective lens and design method of objective lens

DATE-ISSUED: May 9, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Norikazu	Hachioji			JP
Yamazaki; Hiroyuki	Hachioji			JP
Saito; Shinichiro	Hachioji			JP

US-CL-CURRENT: 369/112.26; 369/44.12, 369/44.14, 369/53.41, 369/94[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | | | | [Claims](#) | [KWMC](#) | [Drawn D](#) 26. Document ID: US 6046968 A

L4: Entry 26 of 40

File: USPT

Apr 4, 2000

US-PAT-NO: 6046968

DOCUMENT-IDENTIFIER: US 6046968 A

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\*\* See image for Certificate of Correction \*\*

TITLE: Re-writable optical disk having reference clock information permanently formed on the disk

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Abramovitch; Daniel Y.	Palo Alto	CA		
Towner; David K.	Boise	ID		

US-CL-CURRENT: 369/47.28; 369/59.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  [Claims](#) | [KUDC](#) | [Drawn D](#)

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27. Document ID: US 6043935 A

L4: Entry 27 of 40

File: USPT

Mar 28, 2000

US-PAT-NO: 6043935

DOCUMENT-IDENTIFIER: US 6043935 A

TITLE: Wavelength sensitive beam combiner with aberration correction

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Wai-Hon	Cupertino	CA		

US-CL-CURRENT: 369/112.05; 359/16, 359/637, 369/112.15, 369/44.37

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) |  [Claims](#) | [KUDC](#) | [Drawn D](#)

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28. Document ID: US 6043911 A

L4: Entry 28 of 40

File: USPT

Mar 28, 2000

US-PAT-NO: 6043911

DOCUMENT-IDENTIFIER: US 6043911 A

TITLE: Optical source module with two wavelengths and optical pickup apparatus using the same

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yang; Keun Young	Kyungki-do			KR

US-CL-CURRENT: 359/15; 359/1, 359/27, 369/103

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
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 **29. Document ID: US 6038204 A**

L4: Entry 29 of 40

File: USPT

Mar 14, 2000

US-PAT-NO: 6038204

DOCUMENT-IDENTIFIER: US 6038204 A

TITLE: Optical source module for generating beams with different wavelengths

DATE-ISSUED: March 14, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yang; Keun Young	Kyungki-Do			KR
Bu; Jong Uk	Kyungki-Do			KR

US-CL-CURRENT: 369/121; 369/112.17, 369/112.29, 369/44.23, 369/44.37, 369/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
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 **30. Document ID: US 6005838 A**

L4: Entry 30 of 40

File: USPT

Dec 21, 1999

US-PAT-NO: 6005838

DOCUMENT-IDENTIFIER: US 6005838 A

TITLE: Multi-layers optical recording media and system for recording and reproducing information data

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fan; Bunsen	Cortlandt Manor	NY		
Faris; Sadeg M.	Pleasantville	NY		

US-CL-CURRENT: 369/275.1; 365/108, 369/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Drawn D.
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 **31. Document ID: US 5986994 A**

L4: Entry 31 of 40

File: USPT

Nov 16, 1999

US-PAT-NO: 5986994  
DOCUMENT-IDENTIFIER: US 5986994 A

TITLE: Light pickup of thin type

DATE-ISSUED: November 16, 1999

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kojima; Kouki	Fukuoka			JP
Furukawa; Fuminobu	Onojo			JP

US-CL-CURRENT: 369/112.24; 369/121

Full	Title	Creation	Front	Review	Classification	Date	Reference				Claims	KIAC	Draw. De
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□ 32. Document ID: US 5912868 A

L4: Entry 32 of 40

File: USPT

Jun 15, 1999

US-PAT-NO: 5912868

DOCUMENT-IDENTIFIER: US 5912868 A

TITLE: Optical head for reproducing data from first and second optical disks

DATE-ISSUED: June 15, 1999

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Hideki	Katano			JP
Mizuno; Sadao	Ibaraki			JP
Ito; Noboru	Hirakata			JP
Urairi; Kenichiro	Yawata			JP
Komma; Yoshiaki	Kyoto			JP

US-CL-CURRENT: 369/118; 369/44.24, 369/94

Full	Title	Citation	Front	Review	Classification	Date	Reference					Claims	KOMC	Date
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33. Document ID: US 5838653 A

L4: Entry 33 of 40

File: USPT

Nov 17, 1998

US-PAT-NO: 5838653

DOCUMENT-IDENTIFIER: US 5838653 A

**TITLE:** Multiple layer optical recording media and method and system for recording and reproducing information using the same

DATE-ISSUED: November 17, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fan; Bunsen	Cortlandt Manor	NY		
Faris; Sadeg M.	Pleasnatville	NY		

US-CL-CURRENT: 369/275.1; 365/108, 369/94

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Drawn
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## □ 34. Document ID: US 5828453 A

L4: Entry 34 of 40

File: USPT

Oct 27, 1998

US-PAT-NO: 5828453

DOCUMENT-IDENTIFIER: US 5828453 A

TITLE: Lens designing method and objective lens apparatus with two lenses

DATE-ISSUED: October 27, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Kenji	Saitama			JP
Ichimura; Isao	Kanagawa			JP
Maeda; Fumisada	Tokyo			JP
Watanabe; Toshio	Kanagawa			JP
Ohsato; Kiyoshi	Chiba			JP

US-CL-CURRENT: 356/515; 359/654, 359/794

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOMC	Drawn
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## □ 35. Document ID: US 5812515 A

L4: Entry 35 of 40

File: USPT

Sep 22, 1998

US-PAT-NO: 5812515

DOCUMENT-IDENTIFIER: US 5812515 A

TITLE: Apparatus and method for playing back optical recording having high linear density

DATE-ISSUED: September 22, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsui; Tsutomu	Tokyo			JP

US-CL-CURRENT: 369/124.03; 369/44.37

h e b b g e e e f e f ef b e

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

36. Document ID: US 5808999 A

L4: Entry 36 of 40

File: USPT

Sep 15, 1998

US-PAT-NO: 5808999

DOCUMENT-IDENTIFIER: US 5808999 A

TITLE: Optical pickup apparatus and objective lens for optical pickup apparatus

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yagi; Katsuya	Hachioji			JP

US-CL-CURRENT: 369/112.26; 369/44.12, 369/44.24, 369/44.37

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

37. Document ID: US 5703856 A

L4: Entry 37 of 40

File: USPT

Dec 30, 1997

US-PAT-NO: 5703856

DOCUMENT-IDENTIFIER: US 5703856 A

TITLE: Optical head and optical data recording and reproducing apparatus having the same

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Hideki	Katano			JP
Mizuno; Sadao	Ibaraki			JP
Ito; Noboru	Hirakata			JP
Urairi; Kenichiro	Yawata			JP
Komma; Yoshiaki	Kyoto			JP

US-CL-CURRENT: 369/53.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWC](#) | [Drawn](#)

38. Document ID: US 5692226 A

L4: Entry 38 of 40

File: USPT

Nov 25, 1997

h e b b g e e e f e f e f b e

US-PAT-NO: 5692226

DOCUMENT-IDENTIFIER: US 5692226 A

TITLE: Stereoscopic recording systems utilizing chiral liquid crystals

DATE-ISSUED: November 25, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hall; Dennis R.	Beaverton	OR	97008	

US-CL-CURRENT: 396/326; 359/465

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

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 39. Document ID: US 5493554 A

L4: Entry 39 of 40

File: USPT

Feb 20, 1996

US-PAT-NO: 5493554

DOCUMENT-IDENTIFIER: US 5493554 A

**\*\* See image for Certificate of Correction \*\***

TITLE: 2-laser optical head and recording/reproducing apparatus

DATE-ISSUED: February 20, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sasaki; Tooru	Yokohama			JP
Ohnishi; Kunikazu	Yokosuka			JP
Kitada; Yasuo	Odawara			JP
Inoue; Masayuki	Yokohama			JP

US-CL-CURRENT: 369/112.17; 369/112.28, 369/44.23, 369/44.37, 369/44.38

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

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 40. Document ID: US 4173442 A

L4: Entry 40 of 40

File: USPT

Nov 6, 1979

US-PAT-NO: 4173442

DOCUMENT-IDENTIFIER: US 4173442 A

TITLE: Apparatus and method for determination of wavelength

DATE-ISSUED: November 6, 1979

## INVENTOR-INFORMATION:

h e b b g e e e f e f e f b e

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snyder; James J.	Clarksburg	MD		

US-CL-CURRENT: 356/454

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn D.</a>
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